

Prof. Emmons exhibited a drawing of a fossil head, supposed to belong to *Clepsysaurus*, found in Chatham Co., North Carolina: it was covered with plates, some of which were exhibited, and had a very elongated slender snout, expanded at the tip, with the nostrils situated at the base.

May 24th.

Mr. LEA, President, in the Chair.

Seventy-seven members present.

A paper was presented for publication in the Proceedings, entitled *Ichthyological Notices* by Charles Girard, M. D.

And one for publication in the *Journal*, entitled *New Unionidæ of the United States*, by Isaac Lea.

Which were referred to Committees.

The death, at Berlin, of Baron Alexander von Humboldt, late a Correspondent of the Academy, was announced.

May 31st.

Vice-President BRIDGES in the Chair.

Fifty-one members present.

The Report of Proceedings of the Biological Department for the present month was read.

On report of committees of the Biological Department, the papers entitled, *The Pathological Relations of Cancer*, by J. H. Packard, M.D., and *On two new varieties of Wourari, Carroval and Vao*, by William A. Hammond, M. D., and S. Weir Mitchell, M. D., were recommended for publication in a medical journal.

On report of the respective Committees, the paper entitled, *New Unionidæ of the United States*, by Isaac Lea, was ordered to be published in the *Journal*.

And the following in the Proceedings:

Descriptions of Twenty-one New Species of Exotic UNIONIDÆ.

BY ISAAC LEA.

UNIO SIKKIMENSIS.—Testâ lævi, obovatâ, inæquilaterali, subinflatâ, posticè obtusè biangulatâ; valvulis crassiusculis; natibus prominulis; epidermide luteo-fuscâ, eradiatâ; dentibus cardinalibus parvulis, brevibus crenulatis, in utroque valvulo duplicibus; lateralibus brevibus subcurvisque; margaritâ albâ et iridescente.

Hab.—Sikkim, India. H. Cuming and Prof. Hanley.

UNIO DIMINUTIS.—Testâ plicatâ, corrugatâ, subsulcatâ, ellipticâ, inæquilaterali, compressâ, posticè obtusè angulatâ; valvulis crassiusculis; natibus subprominentibus, ad apices undulatis acuminatisque; epidermide luteâ eradiatâque; dentibus cardinalibus parviusculis, compressis, erectis, crenulatis, in utroque valvulo duplicibus; lateralibus subbrevibus rectisque; margaritâ pallido-salmonîâ et iridescente.

Hab.—East Africa. H. Cuming and Prof. Hanley.

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UNIO PLICATULUS.—Testâ minutè plicatâ, valdè oblongâ, compressâ, valdè inæquilaterali, posticè obtusè angulatâ; valvulis tenuibus; natibus prominulis; epidermide luteo-fuscâ, radiatâ; dentibus cardinalibus obliquis, lamellatis, longis, pertenuibus, dente cardinali valvulæ dextræ duplici; lateralibus longis, acicularis rectisque; margaritâ cæruleo-albâ et valdè iridescente.

Hab.—Borneo. H. Cuming.

UNIO NAVIGIOLIFORMIS.—Testâ minutè plicatâ, valdè oblongâ, subinflatâ, valdè inæquilaterali, posticè truncatâ et subemarginatâ, ad basim emarginatâ, anticè ovato-rotundatâ; valvulis crassiusculis; natibus prominulis; epidermide tenebroso-fuscâ, eradiatâ, micante; dentibus cardinalibus crassiusculis, obliquis, compressis, in utroque valvulo duplicibus; lateralibus prælongis subcurvisque; margaritâ albâ et iridescente.

Hab.— —? H. Cuming.

UNIO FLUCTIGER.—Testâ perplicatâ, subtransversâ, compressâ, valdè inæquilaterali, posticè subrotundatâ, ad basim subemarginatâ; valvulis tenuibus; natibus parvis, prominulis; epidermide luteo-olivâ, transversè et minutè striatâ, eradiatâ; dentibus cardinalibus parvis, obliquis, compressis, in utroque valvulo duplicibus; lateralibus longis subrectisque; margaritâ cæruleo-albâ et iridescente.

Hab.— —? H. Cuming.

UNIO MUTABILIS.—Testâ lævi, latè ellipticâ, subcompressâ, valdè inæquilaterali, ad basim subrectâ; valvulis tenuibus, anticè crassioribus; natibus prominulis, ad apices undulatis, ferè terminalibus; epidermide castaneâ, nitidâ et eradiatâ; dentibus cardinalibus parvis, in utroque valvulo duplicibus; lateralibus prælongis subcurvisque; margaritâ cæruleo-albâ et valdè iridescente.

Hab.—Brisbane Water, Australia; New Zealand, H. Cuming; and Murray River, Australia, W. Newcomb, M. D.

UNIO THWAITSI.—Testâ lævi, regulariter ellipticâ, subinflatâ, inæquilaterali; valvulis crassiusculis; natibus prominulis; epidermide castaneâ, politâ, transversè fasciatâ; dentibus cardinalibus valdè compressis, lamellatis, valdè obliquis, in utroque valvulo duplicibus; lateralibus longis, lamellatis curvisque; margaritâ salmonis colore tinctâ et iridescente.

Hab.—Ceylon. Mr. Thwaites, by H. Cuming.

UNIO MELLEUS.—Testâ sulcatâ, ellipticâ, subinflatâ, valdè inæquilaterali; valvulis subcrassis, anticè crassioribus; natibus subprominentibus, ad apices minutè undulatis; epidermide melinâ, obsolete radiatâ, nitidâ; dentibus cardinalibus subgrandibus, erectis, crenulatis, in utroque valvulo duplicibus; lateralibus sublongis, subrectis, in utroque valvulo duplicibus; margaritâ salmonis colore tinctâ et iridescente.

Hab.— —? H. Cuming.

UNIO DYSONI.—Testâ sulcatâ, ellipticâ, subinflatâ, inæquilaterali, posticè subbiangulari; valvulis subcrassis, anticè crassioribus; natibus prominulis, ad apices lævibus; epidermide stramineâ, eradiatâ; dentibus cardinalibus crassiusculis, erectis, crenulatis, in utroque valvulo duplicibus; lateralibus longis subcurvisque; margaritâ argenteâ et valdè iridescente.

Hab.—Honduras. D. Dyson.

UNIO DEMARARAENSIS.—Testâ sulcatâ, rhomboido-oblongâ, subinflatâ, inæquilaterali, posticè obtusè angulatâ; valvulis crassiusculis; natibus prominulis, ad apices undulatis divergentibus; epidermide olivo-fuscâ, eradiatâ; dentibus cardinalibus crassiusculis, erectis, striatis, in utroque valvulo duplicibus; lateralibus longis subcurvisque; margaritâ albâ et iridescente.

Hab.—Demarara. H. Cuming.

UNIO MAURITIANUS.—Testâ lævi, ellipticâ, compressâ, inæquilaterali; valvulis pertenuibus; natibus prominulis; epidermide olivo-luteâ, nitidâ, obsolete ra-

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diatâ; dentibus cardinalibus miuimis, compressis, obliquis; lateralibus longis, acicularis subcurvisque; margaritâ albâ et paulisper iridescente.

Hab.—Island of Mauritius. H. Cuming.

UNIO VITTATUS.—Testâ crebrè et leviter sulcatâ, ellipticâ, inflatâ, inæquilaterali; natibus prominentibus; epidermide luteo-olivâ, nitidâ, radiatâ, transversè vittatâ; dentibus cardinalibus sublongis, compressis, obliquis; lateralibus longis, lamellatis subcurvisque; margaritâ albâ et iridescente.

Hab.—Australia. H. Cuming.

UNIO PERSULCATUS.—Testâ crebrè sulcatâ, oblongâ, valdè inæquilaterali, compressâ, posticè subangulatâ; valvulis subcrassis; natibus prominulis; epidermide virido-fuscâ, radiis capillaris; dentibus cardinalibus magnis, sulcatis crenulatisque; lateralibus sublongis rectisque; margaritâ purpureâ et valdè iridescente.

Hab.—Mexico. Prof. Hanley.

UNIO SHANGHAIENSIS.—Testâ lævi, valdè transversâ, valdè inæquilaterali, inflatâ, cylindraceâ, posticè subbiangulatâ; valvulis crassiusculis, anticè crassioribus; natibus subprominentibus, ad apices corrugatis et plicatis; epidermide tenebroso-olivâ, nitidâ, obsolete radiatâ; dentibus cardinalibus parviusculis, compressis, crenulatis, rectis, in utroque valvulo duplicibus; lateralibus prælongis, lamellatis rectisque; margaritâ argenteâ et valdè iridescente.

Hab.—Shanghai, China. H. Cuming.

UNIO LAYARDII.—Testâ lævi, ellipticâ, inflatâ, posticè obtusè angulatâ, anticè regulariter rotundatâ, subæquilaterali; valvulis crassiusculis; natibus prominulis; epidermide valdè politâ, micante, tenebroso-fuscâ, nigricante; dentibus cardinalibus longis, lamellatis, obliquis, in valvulam dextram duplicibus; lateralibus longis subcurvisque; margaritâ albâ et iridescente.

Hab.—Ceylon. Frederick Layard.

UNIO JAPANENSIS.—Testâ plicatâ, oblongâ, anticè subsulcatâ, subcompressâ, posticè subbiangulatâ, valdè inæquilaterali; valvulis crassiusculis, anticè paulisper crassioribus; natibus prominulis; epidermide tenebroso-fuscâ, micante; dentibus cardinalibus subgrandibus, elevatis, crenulatis, in utroque valvulo duplicibus; lateralibus longis subcurvisque; margaritâ albâ et valdè iridescente.

Hab.—Japan. H. Cuming.

UNIO SUMATRENSIS.—Testâ plicatâ, subtriangulari, subventricosâ, posticè subbiangulatâ, inæquilaterali; valvulis subcrassis; natibus subprominentibus; epidermide micante, luteo-olivâ, posticè virente; dentibus cardinalibus lamellatis, compressis, obliquis, in utroque valvulo duplicibus; lateralibus subbrevis curvisque; margaritâ albâ et iridescente.

Hab.—Sumatra. H. Cuming.

UNIO ROWELLI.—Testâ sulcatâ, ellipticâ, subinflatâ, posticè obtusè angulatâ, inæquilaterali; valvulis subcrassis, anticè paulisper crassioribus; natibus prominulis, ad apices undulatis; epidermide rufo-fuscâ, obsolete radiatâ; dentibus cardinalibus compressis, elevatis, crenulatis, in utroque valvulo duplicibus, lateralibus subrectis sublongisque; margaritâ albâ et iridescente.

Hab.—Chagres River, New Granada. Rev. Joseph Rowell.

UNIO WILSONII.—Testâ crebrè et leviter sulcatâ, transversè ellipticâ, subinflatâ, valdè inæquilaterali; valvulis tenuibus; natibus prominentibus, ad apices lævibus; epidermide olivo-iridescente, nitidâ, obsolete radiatâ; dentibus cardinalibus parvis, lamellatis et obliquis; lateralibus longis, acicularis subrectisque; margaritâ cæruleo-albâ et iridescente.

Hab.—Eastern Branch of Isaac's Plain. New South Wales, T. B. Wilson, M. D.

ANODONTA DAHOMEYENSIS.—Testâ lævi, transversâ, subinflatâ, ad latere compressâ, ad basim emarginatâ, valdè inæquilaterali; valvulis tenuibus; natibus subprominentibus; epidermide tenebroso-olivâ, striatâ, eradiatâ; margaritâ cæruleo-albâ et iridescente.

Hab.—Dahomey, West Africa. Mr. Fraser, by H. Cuming.

ANODONTA SENEGALENSIS.—Testâ lævi, transversâ, subinflatâ, ad latere vel planulatâ vel compressâ, ad basim subemarginatâ, valdè inæquilaterali; valvulis crassiusculis; natibus subprominentibus, ad apices minutè et obliquè undulatis; epidermidè tenebroso-viridescente, nitidâ, eradiatâ; margaritâ vel cæruleo-albâ vel salmonis colore tinctâ et iridescente.

Hab.—Senegal. J. C. Jay, M. D., E. Verreaux and H. Cuming.

Descriptions of Two New Species of UNIONES, from Georgia.

BY ISAAC LEA.

UNIO FIBULOIDES.—Testâ lævi, subrotundâ, inflatâ, subæquilaterali; valvulis crassis, anticè paulisper crassioribus; natibus crassis et valdè promiuentibus; epidermide vel fuscâ vel luteo-fuscâ, anticè striatâ; dentibus cardinalibus crassis, compressis crenulatisque; lateralibus curtis, crassis, rectis granulatisque; margaritâ albâ et iridescente.

Hab.—Connasauga River, Georgia. Bishop Elliott.

UNIO COMPACTUS.—Testâ lævi, triangulari, subinflatâ, ad latere planulatâ, posticè angulatâ, inæquilaterali; valvulis crassis; natibus elevatis; epidermide luteo-olivâ, radiis maculatis capillaris creberrimis; dentibus cardinalibus parvis, erectis, in utroque valvulo duplicibus; lateralibus curtis, crassis rectisque; margaritâ albâ et iridescente.

Hab.—Etowah River, Georgia. Bishop Elliott, and Rev. G. White.

Descriptions of seven new species of UNIONES from South Carolina, Florida, Alabama and Texas.

BY ISAAC LEA.

UNIO CACAO.—Testâ lævi, oblongâ, subquadratâ, compressâ, ad latere planulatâ, posticè obtusè angulatâ, inæquilaterali; valvulis subcrassis, anticè crassioribus; natibus prominulis; epidermide castaneâ, supernè micante, infernè striatâ; dentibus cardinalibus crassiusculis, striatis, suberectis, in utroque valvulo duplicibus; lateralibus curtis, lamellatis rectisque; margaritâ purpurecente et valdè iridescente.

Hab.—Chacktahachie River, West Florida. Major Le Conte.

UNIO HEPATICUS.—Testâ lævi, ovato-oblongâ, compressâ, posticè latè biangulatâ, inæquilaterali; valvulis subtenuibus; natibus prominulis; epidermide micante, hepaticâ, vel eradiatâ vel obsoletè radiatâ; dentibus cardinalibus parvis, subelevatis, striatis, in utroque valvulo duplicibus; lateralibus longis, lamellatis subrectisque; margaritâ pupurescente et valdè iridescente.

Hab. Salkakatche River, South Carolina. J. Postell.

UNIO VIRIDIRADIATUS.—Testâ lævi, latè ellipticâ, compressâ, posticè dilatâtâ et obtusè angulatâ, anticè regulariter rotundatâ, valdè inæquilaterali; valvulis subtenuibus; natibus prominulis, ad apices minutè et irregulariter undulatis; epidermide subnitidâ, radiis crebris capellaris; dentibus cardinalibus parvis, crenulatis, in utroque valvulo duplicibus; lateralibus longis, lamellatis subrectisque; margaritâ purpureâ et valdè iridescente.

Hab. Big Uchee, Alabama, near Columbus, Georgia. G. Hallenbeck.

UNIO MACRODON.—Testâ lævi, triangulari, compressâ, subæquilaterali, posticè

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